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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/819,943	03/28/2001	Charles D. Snelling	F.007	2958	
· .	7590 07/25/2002				
Gordon F. Belcher			EXAMINER		
	MONDOLINO, LLP		CYGAN, MICHAEL T		
60 East 42nd Street New York, NY 10165			ART UNIT	PAPER NUMBER	
11011 10111, 111			2856		
			DATE MAIL ED: 07/25/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

				WW.			
Office Action Summary		Application No.	Applicant(s)				
		09/819,943	SNELLING ET AL.				
		Examiner	Art Unit				
		Michael Cygan	2856				
Period fo	The MAILING DATE of this communication app r Reply	pears on the cover sheet with	the correspondence addre	ss			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)	Responsive to communication(s) filed on	<u> </u>					
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	is action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
Dispositi	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
·	Claim(s) <u>1-12</u> is/are pending in the application	1.					
•	4a) Of the above claim(s) is/are withdra						
	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-4 and 9-12</u> is/are rejected.						
7)🖂	Claim(s) <u>5-8</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
• •	The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)⊠ The oath or declaration is objected to by the Examiner.							
Priority u	ınder 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) 🗌 A	Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C. §	119(e) (to a provisional ap	plication).			
a) ☐ The translation of the foreign language provisional application has been received. 15)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachmen	t(s)						
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) 4	5) Notice of Inf	ummary (PTO-413) Paper No(s). formal Patent Application (PTO-1				
J.S. Patent and T	rademark Office						

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DETAILED ACTION

Specification

 The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Oath/Declaration

2. Applicant has not given a post office address anywhere in the application papers as required by 37 CFR 1.33(a), which was in effect at the time of filing of the oath or declaration. A statement over applicant's signature providing a complete post office address is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 3. Claims 1-4 and 9-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Maatuk (US 5,908,985). Maatuk discloses the claimed invention, a liquid

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level detection system comprising a substrate [61] supporting a heater [62] and a sensor probe strip (column 7, lines 11-20) having several vertically spaced thermal sensors [71], with the resistances of the sensors being read by a microprocessor [81] and converted into liquid level data which is displayed [31]. See entire disclosure, especially Figures and columns 3-4 and 7. A power supply [90] is used. The temperature of the probe strip is interpolated between upper and lower sensor pads to yield a level reading between sensor pads (column 2, lines 9-20; column 6, lines 7-52; column 7, lines 26-32; column 9, lines 1-10).

Allowable Subject Matter

- 4. Claims 5-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter: The prior art neither discloses nor fairly teaches the use of the claimed formula being programmed into a microprocessor used as a liquid level sensor having the claimed attributes.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Thermal liquid level sensors having similar properties

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are disclosed by Marcoux (US 3,911,564), Lord (US 5,782,131), Wallrafen (US 5,719,332), Nozawa (US 5,234,527), Kuhnel (US 4,466,282), and Albrecht (US 4,425,795).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Cygan whose telephone number is 703-305-0846. The examiner can normally be reached on 8:30-6 M-Th, alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on 703-305-4705. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3431.

MTC

mtc

May 14, 2002

HEZRON WILLIAMS

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800